

store the at least one obstacle in a storage cloud; and enable systems external to the transporter to access the at least one stored obstacle.

11. A method for charging/storing a transporter, the transporter being associated with at least one sensor and at least one processor, the method comprising:

determining, by the at least one processor processing sensor data from the at least one sensor, at least one charging/storage area location of a charging/storage area;

creating, by the at least one processor based at least upon the at least one charging/storage area location, at least one movement command to move the transporter from a first location to the at least one storage/charging area location;

providing, by the at least one processor, the at least one movement command;

determining, by the at least one processor processing the sensor data from the at least one sensor, a charging dock location in the charging/storage area;

creating, by the at least one processor based at least upon the at least one charging/storage area location, the at least one movement command to couple the transporter with a charging dock associated with the charging/storage area; and

providing, by the at least one processor, the at least one movement command.

12. The method as in claim **11** further comprising: generating a signal to lock the transporter in the charging/storage area.

13. The method as in claim **11** further comprising: reacting to at least one obstacle while maneuvering the transporter including:

receiving, by the processor from a user, at least one command and user information;

receiving, by the processor, and segmenting, by the processor, obstacle data from the at least one sensor associated with the transporter, the at least one sensor collecting the obstacle data as the transporter moves;

identifying, by the processor, at least one plane within the segmented obstacle data;

identifying, by the processor, the at least one obstacle within the at least one plane;

determining, by the processor, an obstacle distance between the transporter and the at least one obstacle;

accessing, by the processor, at least one allowed command related to the obstacle distance, the at least one obstacle, and at least one situation identifier;

accessing, by the processor, at least one automatic response to the at least one command;

relating, by the processor, the at least one command to one of the at least one allowed commands forming a related allowed command; and

providing, by the processor, at least one first movement command instructing the transporter to move the

transporter based at least on the at least one command and the at least one automatic response associated with the related allowed command.

14. The method as in claim **13** wherein the at least one obstacle comprises at least one moving object.

15. The method as in claim **13** wherein the obstacle distance comprises a dynamically-varying amount.

16. The method as in claim **13** wherein the at least one movement command comprises a pass-the-at-least-one-obstacle command.

17. The method as in claim **13** further comprising: analyzing the obstacle data using a point cloud library (PCL).

18. The method as in claim **14** further comprising: tracking the at least one moving object using simultaneous location and mapping (SLAM) with detection and tracking of moving objects (DATMO) based on a location of the transporter.

19. The method as in claim **11** further comprising: negotiating an elevator, the elevator including an elevator threshold and an elevator door, while maneuvering the transporter including instructions to:

locate, by processing sensor data from the sensors, the elevator;

provide a first at least one movement command moving the transporter through the elevator door clearing the elevator threshold into the elevator;

determine, by processing the sensor data, a geometry of the elevator;

provide a second at least one movement command to moving the transporter into a floor selection/exit location relative to the elevator threshold; and

when the elevator door opens, providing a third at least one movement command moving the transporter through the elevator door across the elevator threshold to fully exit the elevator.

20. The method as in claim **11** further comprising: negotiating a door while maneuvering the transporter, the door including at least one handle and a door location, the door being associated with a door swing and a doorway, the negotiating including instructions to:

receive sensor data from the at least one sensor associated with the transporter;

determine, by the at least one processor processing the sensor data, a hinge side of the door, the door location, and a swing direction of the door based on the hinge side of the door;

determine characteristics of the door, a distance from the transporter to the door, a width of the door,

create, by the at least one processor based at least upon the door, the at least one movement command to move the transporter through the door based on the door swing and the width of the door; and

provide, by the at least one processor, the at least one movement command to the transporter.

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